

Product datasheet for **SC114463**

NYREN18 (NUB1) (NM_016118) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NYREN18 (NUB1) (NM_016118) Human Untagged Clone
Tag:	Tag Free
Symbol:	NYREN18
Synonyms:	BS4; NUB1L; NYREN18
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_016118, the custom clone sequence may differ by one or more nucleotides

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ATGAAACAAACGGCGGCCGCTGCCGCATCCGGGCACTCTGCTGGTCGCGGGGGAGTGGCGTGGCGCAG
GGATGGCACAAAAAGAAATATCTTCAAGCAAAATGACCCAGTTTTTAAGGGAAGACAGGATTCAACTTTG
GAAACCTCCATATACAGATGAAAAATAAAAAGTTGGTTTTGGCATTAAAGGACCTTGCTAAGCAGTACTCT
GACAGACTAGAATGCTGTGAAAAAGAGTAAAAAGTAAATAGAAGAAATACGTTGCAAGGCAATTGAGC
GTGGAACAGGAAATGACAATTATAGAACAACGGGAATTGCTACAATCGAGGTGTTTTTACCACCAAGACT
AAAAAAGATAGGAAAACTTGTGGAGACCCGATTGCACATCACTGGCAGAGAAGTGGGTCCAAAATA
GCTGAAACCTTTGGACTTCAAGAAAATTATATCAAAATTTGCATAAATAAGAAGCAACTACAAGTGGGA
AAACCTTGAAGAACAAGGCGTGGCTCACAATGTGAAAGCGATGGTGGTGAAGTAAAACAATCTGAAGA
GGACGCGAGGAAAACTCCAGTTAGAGGAAGAGGAGCAAAATGAGGCCAACTCAAAGAAAAACAATT
CAGAGGACCAAGAGAGGACTAGAAATCTGGCAAAGAGAGCAGCAGAGACAGTGGTGGATCCAGAAATGA
CACCGTACTTAGACATAGCTAACAGACAGGCAGATCAATCAGAATCCCCATCAGAAAGAAAAGCCCT
TATGTTAGCTATGGGATATCATGAGAAGGGCAGAGCTTTCCTGAAAAGAAAAGAAATATGGAATAGCCTTG
CCATGTCTGTTGGACGCTGACAAATATTTCTGTGAGTGTTCAGAGAGCTGCTGGACACAGTGGATAACT
ACGCCGCTCCTCCAGCTGGATATAGTGTGGTGTACTTCCGCTGGAACAGCTGGAATGCCTTGATGATGC
AGAAAAAAATTAACCTTGGCCAGAAATGCTTTAAAAATTTGTTACGGAGAAAATCATCAGAGACTGGTC
CACATAAAGGAAATTTGGGAAAGAGAAGTACTGTTTCTAAGACTCTACTTCAAGGGATCCGAA
ACTATCACAGTGGAAATGATGTAGAGGCTTATGAGTATCTTAACAAGGCAGTCAGCTCTTAAAGAGCT
ATATATTGATCCATCAAAGTGGACAATTTGTTGCAGTTGGGGTTTACTGCCAGGAAGCCCGCTTGGC
CTGAGGCGGTGTGATGGGAACGTGGATCATGCGGCCACTCATTTACCAACCGCAGAGGAACTGGCCC
AAATAAGGAAGGAGGAAAAAGAGAAGAAAAAGACGCGCCCTCGAGAACATCAGGTTTTCTGAAAGGGATGGG
CTACTCCACGCACGCGGCCAGCAGATTCTGCTCAGCAATCCTCAGATGTGGTGGTTAAATGATTCCAAT
CCTGAAACCGACAACCGTCAAGAAAGTCTTCCCAGGAAAACATTGACCGATTGGTGTACATGGGTTTTG
ATGCACTCGTGGCCGAAGCTGCGCTGAGAGTGTTCAGAGGCAACGTCCAGCTGGCCGCCAGACCCTTGC
TCACAACGGAGGAAGCCTGCCTCCCGAGCTGCCGCTGTCGCCAGAAGACTCTTTGTCCCCGCCAGCCAG
TCCCCTTCTGACTCCGCAGGAACCTCTAGTGCCTCAACAGACGAAGACATGGAGACAGAGGCCGTCAATG
AGATACTGGAAGACATTCAGAGCATGAGGAAGACTATCTTGACTCAACTCTGGAAGATGAAGAAATAT
TATTGCAGAGTACCTATCTATGTAGAAAATAGGAAGTCAGCAACAAGAAAAACTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016118 unedited

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TTTGTAAACGACTCACTATAGGGCGGCCGGAATTTGGCAGGAGGCTGGTCGCGGGGG
AGTGGCGTGGCGCAGGGATGGCACAAAAAGAAATCTTCAAGCAAAATGACCCAGTTTTT
AAGGGAAGACAGGATTTCAACTTTGGAAACCTCCATATACAGATGAAAAATAAAAAGTTGG
TTTGGCATTAAAGGACCTTGCTAAGCAGTACTCTGACAGACTAGAATGCTGTGAAAAATGA
AGTAGAAAAGGTAATAGAAGAAATACGTTGCAAGGCAATTGAGCGTGGAACAGGAAATGA
CAATTATAGAACAACGGGAATTGCTACAATCGAGGTGTTTTTACCACCAAGACTAAAAAA
AGATAGGAAAAAATTTGTTGGAGACCCGATTGCACATCACTGGCAGAGAAGTGGTCCAA
AATAGCTGAAACCTTTGGACTTCAAGAAAATTATATCAAAATTTGCATAAATAAGAAGCA
ACTACAAGTGGGAAAACCTTTGAAGAACAAGGCGTGGCTCACAATGTGAAAGCGATGGT
GCTTGAACATAAACAATCTGAAGAGGACCGAGGAAAAACTTCCAGTTAGAGGAAGAGGA
GCAAAATGAGGCCAACTCANAGAANAACAATTCAGAGGACCAAGAGAGGACTAGAAAT
ACTGGCAAAGAGAGCAGCAGAGACAGTGGTGGATCCAGAAATGACACCGTACTTAGACA
TAGCTAACAGACAGGCAGATCAATCAGAATCCCCCTCAGAAAGAAAGCCCTTATGTT
AGCTATGGGATATCATGAGAAGGGCAGGNAGCTTCTGAAAGAAAGATATGGNATAGCC
TTGCCATGTCTGNTGGACGCTGACAATATTTCTGGTGGTGTTCGAAAGAGCTGCTGGAC
AA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016118 unedited ACCGCGGCCGCATATTTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAAATATTTCCACCT TTTATTTCCATCGGTATCATCCGTTTAAAAAGAATGACAAGAAGATTTCCATCAGTCCAA ACTGGACCACCCACACTTTGAAAAGTTGGAGCATTTTCAGCCGGCTCCGCATGATCCATC CTGTCTTCAGTCAGTGCCTTCTGGAAGGGAGGGAAAGTCTGGATGCACCTGGCACTCAA TCCACTCGGCACCTGGCTGCTGCTGCGTCTGGGGCTGGAAGGAATCCCCTGGGCAC ACATCTACAGAGGAGTGCCTGGCGCAGTGAGGACGGTTACTGCTGGAGCCGACACACAGC GAACTACATACTTTTAGAAAGAGCCTCTGTCACATGGCTAGAACAACAACAACAACAAG AAAACCCACAAAAACCTGGAGAAAATATATCTAAATCTCTGATAGGTCTCTTAGCTAGC AGTGAATTCAGTATGACAGCACAGAGTCTAAAAATATTAATTAATAAAATAAATTGCTTTGG TTAGCATTTAAACCTTTCCATTCAATAGAAGATTTCTGTAATGAGGAATGCTGAATATA TATAAAGCCTGACACTCAATCTTGAATTTGGGGGGCTTTTTTACTGAACTAAGAGCATA AAACACTGGCGTCCCAGGCTGAAGGCATTTGCTGCCACCTGGTGTGGCCCCAAAGCCAG CGCCTCATTGTTATGCCCCACAGGCCTTGAAGGAATACTTAAGGACCATTTGAGGGGC CGGGGAAGGGTGGGCCAGGAAACCATGGTGCACCTGGCAGAATAGGCCCGCGGGAAATA AGAACGCCAGGCCATGTGTTCCCGAGGCCCGCCCTCCGTGCCATGGACCCCTGGAGAG AAAGCGCGGGACACCTTTCCAGAACCTGCTCGGCACCTN
Restriction Sites:	NotI-NotI
ACCN:	NM_016118
Insert Size:	3370 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_016118.3 , NP_057202.2
RefSeq Size:	3112 bp
RefSeq ORF:	1806 bp
Locus ID:	51667
UniProt ID:	Q9Y5A7
Cytogenetics:	7q36.1
Domains:	UBA
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes a protein that functions as a negative regulator of NEDD8, a ubiquitin-like protein that conjugates with cullin family members in order to regulate vital biological events. The protein encoded by this gene regulates the NEDD8 conjugation system post-transcriptionally by recruiting NEDD8 and its conjugates to the proteasome for degradation. This protein interacts with the product of the AIPL1 gene, which is associated with Leber congenital amaurosis, an inherited retinopathy, and mutations in that gene can abolish interaction with this protein, which may contribute to the pathogenesis. This protein is also known to accumulate in Lewy bodies in Parkinson's disease and dementia with Lewy bodies, and in glial cytoplasmic inclusions in multiple system atrophy, with this abnormal accumulation being specific to alpha-synucleinopathy lesions. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in an isoform (2, also known as NUB1) that is shorter than isoform 1.